## CSCA44 — INTERNET OF THINGS

Time : Three hours                    Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1.  Name any two link layer protocols.

2.  What is 'Things' in IOT?

3.  Give the components of ARM architecture.

4.  Define M2M gateways.

5.  List out the components of IPSO.

6.  What are the transport protocol standards?

7.  Mention the versions of Raspberry Pi.

8.  State :

    (a)  Raspbian,        (b)  Pidora.

9.  How does web socket handshake occur?

10. Name the cloud services in IoT.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Discuss about IoT communication APIs.

Or

(b) Describe in detail about wireless sensor networks.

12. (a) Explain about the IoT reference architecture.

Or

(b) Describe the IoT domain model.

13. (a) Categorize the issues with IoT standardization in detail.

Or

(b) Explain about SCADA and RFID protocols.

14. (a) Elucidate about the building blocks of an IoT devices.

Or

(b) Describe about Raspberry Pi interfaces.

15. (a) Explain about cloud storage modules.

Or

(b) Discuss in detail about Smart Grid.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Discuss about smart home automation in detail.

17. Explain about IoT functional model.

18. Describe about IoT security.

19. Explain about IoT physical devices and endpoint.

20. Elaborate data analytics for lot.

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